

# CROSS



# TALK

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August 23, 1961

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## CLUB OFFICERS

President Jim Peck W2LW,  
Vice President Jack Sterner W2CQK  
Secretary Paul Walton W2YNR  
Treasurer Harace Simpson W2JOZ  
Corr. Secretary Della Parker W2AFZ

## BOARD OF DIRECTORS

Milt Goldman WA2ECR      Tad Deuber W2CKX      George Stuart K2SOL  
Mal Mason W2MMD      Van Turner W2KE      Chas. Sketchley K2PQD

Send all material to Woody Frantz for CROSSTALK

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#### MEETING

The monthly meeting of the Gloucester County Amateur Radio Club will be Wed. evening at 2000 hours Sept 6th in the Owens-Illinois clubhouse in Glassboro. The Program for the evening will be rag chewing and making plans for the forth coming Hamfest on Sept. 17th at Molia Farms.

#### HAMFEST

To make our Hamfest a success, everyone should sell as many tickets as possible. The prizes are beginning to come in and the program plans are being formed to make this another one as good or better than the one we had last year, if that is possible. Talkin Frequencies will be on 2 meters, 50.55 Mc. and 10 meters. Rain date will be the following week Sept. 24th.

#### CD

The new 100 foot tower was installed at the county court house recently. Due to some delays in moving the equipment to the new CD headquarters room, there will probably no CD drills held until October.

#### CLUB PROJECT

Gordon W2PAX is chairman of a study for a possible club project for 6 meters. The line up is as follows:

Receiving: Handbook double conversion crystal controlled converter into the car receiver.  
Transmitter: Converted commercial high band FM transmitter with a measured output of 30 watts. The AM modulator is a pair of 2N441 transistors.

Another project may be a shielding of the ignition system. has anyone had experience doing this? de W2PAX

#### NEWS

Milt Goldman's business establishment in Glassboro recently was destroyed by fire. We wish to express our sincere sympathy to Milt for this misfortune. Milt reported that the airconditioner that he was going to donate to the club for the ham shack was also lost in the fire.

K2AQL has had an addition to the family on Aug. 12th of a little baby.girl.

HERE IS A REAL JUICY ONE.

(Special to 73 Magazine News Service, via The Metro Modulator)

Washington- The Federal Communications Commission has for the first time in its history ordered two TV set owners in Maysville, W.VA., to show cause why they should not cease and desist from causing interference to a shut-in's radio reception and to appear at a hearing there July 12.

The commission has taken action against users of electronic equipment which disrupts radio communication on many occasions but has never before resorted to formal proceedings against a private set owner.

Miss Nellie Feaster complained that three neighbors' TV sets were disrupting her radio reception. This was verified and FCC asked them to correct it. One set owner did, but the other two did not reply and the interference continued.

(Reprinted from Harmonics)

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## HOME BREW CONTEST

What is a "Home Brew Contest?" Basically it is a contest whereby any one may submit any type of an idea of his own. It may be a method that enabled an individual to solve a problem with his transmitter, receiver or antenna. It may be a piece of equipment he designed or created to better his station. It can even be a gadget or a means of improvement. The emphasis of today is for the Ham to buy everything he owns in his station, therefore, very few of the new Hams or prospective Hams have any inkling of what his equipment consists of. This is a far cry from when a Ham, to obtain his license in the old days, had to have some constructive ability. It hasn't been too long ago when a Ham had to dig in and iron out his difficulties. By him building the equipment, he knew about where to look for his trouble and if he discovered a better way to do something, he didn't hesitate to try it. Now every one today has had an idea at sometime or other but few put it to use for fear it isn't good enough. They couldn't be farther from the truth. Always remember that "great oaks from little acorns grows." Now about our contest. We are planning on three divisions, namely; the novice, intermediate and the semi-pros. This novice or Junior group will consist of fellows up to 17 years of age; the intermediates will have no age limit, but will include anyone over 17 years of age who is not in electronics in a professional capacity; the semi-pros are the fellows who work in some form of electronics professionally. Awards will be made in each group according to the idea submitted and will not be judged on workmanship alone, although the neatness and approach will add points to your score. We do not want things copied from the various handbooks, but an idea may be gotten from a book and then developed by yourself. If you have a theory and have made it work and can submit it in writing form along with your proof, this can be entered also. Now this contest can be a lot of fun plus gaining a lot of knowledge and will teach you to think and experiment. You may submit as many entries as you care to. The contest closes on wednesday, December 6, 1961 at which time your entries will have to be at the club house on this meeting night. If the various club members will participate in this, I am sure that we can and will make it an annual affair and will try to improve the contest as we progress. you don't have to long until December but certainly long enough to come up with something. The person who we will get to judge the entries will be outsiders, impartial and fair.

GET AN IDEA

\*\*\*\*\*WORK\*\*\*\*\*

\*\*\*HAVE FUN\*\*\*

de W2PLD Wally Martin

EDITORIAL

Due to the excellent write up Wally made in the above article and my complete agreement with what he said in it, I think that this is enough of an editorial for this month. So get into the contest or you will be called something worst than a dirty bird. That is a "Cotton Pickin Kit Builder" Hi!

de K2AQL

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## Some Useful fact about audio transformers.

Here is some information that was requested recently by one of our members. Fortunately I know an engineer at my place of employment who did design work on transformers at one time. This engineer gave me the answers we were seeking. We all know that the turns ratio is equal to the voltage step up or down ratio a transformer. If we have an unmarked or unknown transformer we may determine its turns ratio by using an audio oscillator and feed a signal into one of the windings. By measuring with an A.C. voltmeter to voltages of both windings we may determine the turns ratio of the transformer. In audio transformers we are interested in the impedance transfer ratio. This ratio is equal to the turns or voltage ratio squared.

The big problem was usually how to find at what impedance the windings of the audio transformer will work best. For output and modulation transformers the proper impedance will be approximately twenty times the D.C. resistance of the winding. This D.C. resistance is very easy to measure with an Ohmmeter. However, a transformer will work at other impedences than that which it was designed for. But of course you will lose either low or high frequency response depending on whether you operate above or below the proper impedance. If you operate the transformer at an impedance higher than normal the high frequency response will be poor. And of course if you use the transformer at a lower than normal impedance, the lower frequency response will be poor.

Anyone who wishes to have a schedule of the National Bureau of Standards radio WWV and WWVH send to the U.S. Dept. Of Commerce for Miscellaneous Publication 236. Della W2AFZ has one copy for examination by anyone who is interested.

de K2AQL

## ARRL BULLETINS

NR 812 From ARRL Headquarters West Hartford Conn. August 14, 1961  
To All Radio Amateurs

Senators Barry Goldwater of Arizona and Andrew Schoeppel of Kansas have introduced a bill, S-2361, to amend the Communications Act in order to permit reciprocal licensing of amateurs. The bill has been referred to the Interstate and Foreign Commerce Committee. All members interested in reciprocal operating privileges should write to the senators and represent atives of their respective states immediately, urging favorable action on the bill AR

NR813 From ARRL Headquarters West Hartford Conn August 18, 1961  
To ALL Radio Amateurs

The ARRL Communications Department announces availability of Operating Aid No. 10, Time Conversion To GMT. This useful operating aid in chart form can conveniently and quickly aid you in converting GMT to EST, CST, MST, PST, or vice versa. Operating Aid No. 10 is free upon mail or radiogram request from ARRL AR

## SWAP AND SHOP

Wanted Two 811A's  
Two 866's  
Contact WA2KRY Ron Trostel

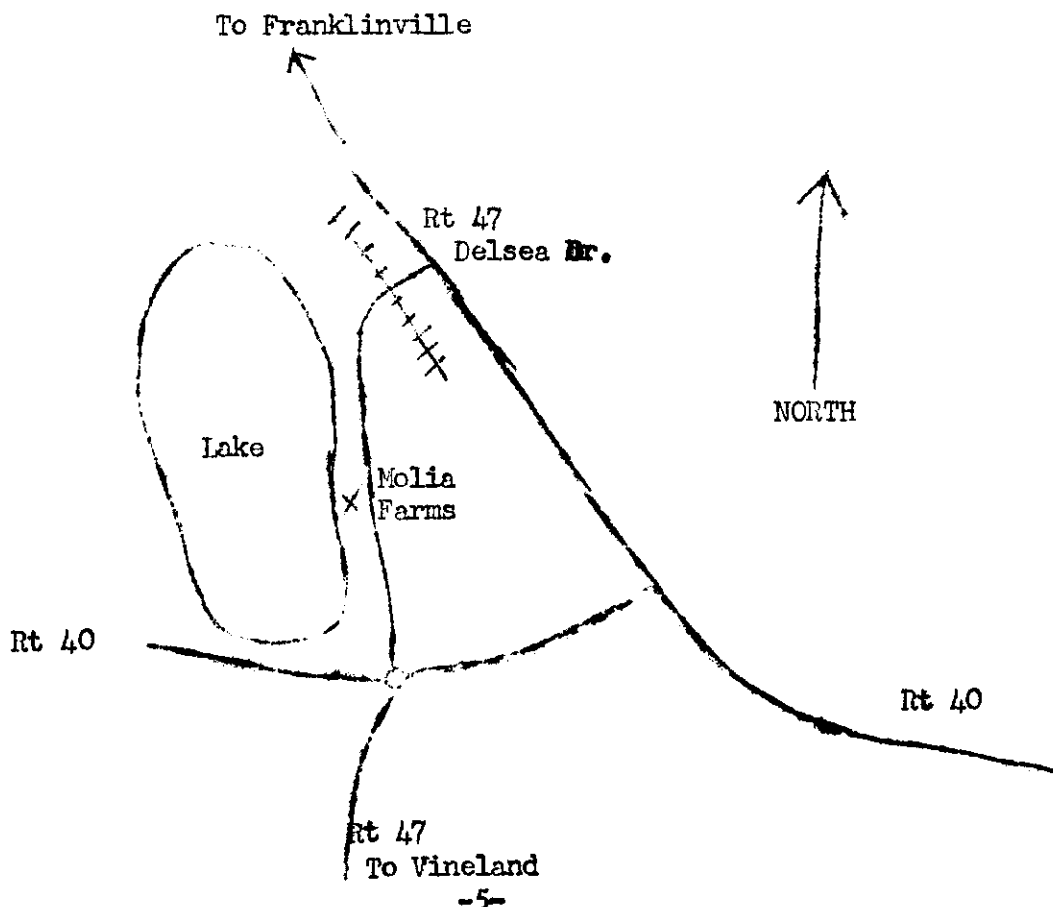
Wanted LM Frequency meter, or BC221 Frequency Meter  
Contact W2GQK Jack Sterner

For Sale Gonset Super 12 Converter, Excellent condition \$35.00  
Gonset 2 meter converter, and Dow Key TR Switch  
Contact W2JOZ Horace Simpson

For Sale BC 455 Command Receiver \$10.00  
Field Strength Meter with Simpson meter \$15.00  
S 388 Receiver \$35.00  
Contact WA2KRY Ron Trostel

Don't forget that there will be a SWAP N SHOP at the Hamfest. Anyone having equipment to sell at the Hamfest or wish to help the committee, contact Samuel H. Boston

## MAP TO FIND HAMFEST LOCATION



Minutes of the Board of Directors Meeting  
August 23, 1961  
Home of C. Sketchley, K2PQD

Present :

K2PQD  
W2LVW  
W2JOZ

W2YNR  
W2MMD  
WA2ECR

W2CKX  
W2MMD  
K2SOL

W2AFZ  
K2AQL

The meeting was called to order at 8:05 PM by the president. The minutes of the previous meeting were read and approved.

The Field Day chairman, W2MMD read his report. His recommendations are as follows:

- 1.- Purchase a large milk can, install a spigot and use it for drinking water.
- 2.- Purchase or supply a 25 gallon can for gasoline.
3. Send out questionnaires before field day, showing the cost of meals , to determine food situation.
- 4.-Appoint a groundcommittee to look after water, gas, oil, etc.
- 5.- There should be no more than one transmitter to a camp site. This should be passed on by the club at a regular meeting.

W2MMD

Della, W2AFZ reported that a letter has been recieved from Pitman High School offering two rooms for fall code classes, and requesting a schedule. Herb Brooks, A.R.R.L SCM has been notified of this activity. W3AMO of Norwood, Pa has written to the club requesting data for our certificate. Notice has been recieved from ARRL of Operating Aid No. 10. - Time Conversion Chart.

The treasurer, W2JOZ, reported a balance of \$365.95

Committee Reports

Membership- none

Program- none

Awards- none

TVI - W2HSE's problem was discussed at the previous regular meeting.

C.D. - No report

Ham Shack- No activity.

Ham Fest- There will be mobile "talk-in" on 2 and 6 meters. Harry Perry will be requested to make up colored tickets for the drawings. WA2ECR has mailed 245 letters to manufacturers and expects about 125 prizes in return. W2LVW and W2MMD attended the "Pack Rats" ham fest and returned with some good ideas.

Publicity- W2YNR will write a piece for the local papers. He will

attempt to get some publicity from the areas radio stations.

CrossTalk- No Report.

### Old Business

Affiliatio with the Council of Radio Clubs of Delaware Valley was discussed. W2LVW will check into this with W2SUA , in view of the lack of activity.

W2ECCR pointed out that the air conditioner he had promised to the club had been lost in his fire. (See Crosstalk this issue)

There was some discussion of the Ham Shack and the proposed equipment.

### New Business

W2JOZ, the treasurer, reported an unaccounted for discrepancy of \$20.91 in the treasury. He offered to donate a Q-multiplier to the club to raffle to try and recover this. W2LVW pointed out that ,according to the constitution there is to be an annual audit. In view of the nature of the receipts it was felt that no criticism could be directed toward W2JOZ, in fact, only gratitude for his fine service . In view of this his offer of a Q-multiplier was accepted only as a money making club project. W2LVW will call for an immediate audit as well as one at the end of the year. He will appoint an auditing committee.

The meeting was adjourned at 9:42 PM. Refreshments were served by Mrs. K2PQD.

Respectfully submitted, W2YNR

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### Last Minute Releases:

Glen Morgan is in the market for a Farnet Tri-bander. with a used rotor. Call Na9-7712.

W2YNR is setting up a new ham shack. He is looking for a tower, and a small variable transformer suitable for light dimming.